

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 79-34

WATER RECLAMATION REQUIREMENTS FOR:

CENTRAL CONTRA COSTA SANITARY DISTRICT,
CONTRA COSTA COUNTY WATER DISTRICT, SHELL OIL
COMPANY, STAUFFER CHEMICAL COMPANY, PACIFIC
GAS & ELECTRIC COMPANY, TOSCO CORPORATION,
MONSANTO COMPANY, IT ENVIRONMENTAL COMPANY,
CARBONIC ENGINEERING COMPANY, AND ACME FILL
CORPORATION

CONTRA COSTA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay
Region (hereinafter the Board) finds that:

1. On June 26, 1973, the Board adopted Order No. 73-41 prescribing waste-water reclamation requirements for the Central Contra Costa Sanitary District (hereinafter Sanitary District), Contra Costa County Water District (hereinafter Water District), and a number of industrial reclaimed water users in the Central Contra Costa County area.
2. The Water District by letter dated December 8, 1978, requested expansion of services to new industrial users thereby necessitating revision of Order No. 73-41.
3. The Sanitary District is completing construction of a 30 mgd water reclamation facility. The treatment process includes lime clarification for phosphorous removal, activated sludge biological oxidation with nitrification, dual media filtration, disinfection, and solids disposal incorporating centrifugation and incineration. Initially 15 mgd of the effluent from the reclamation facility will be delivered to the Water District for subsequent treatment in a water softening plant currently nearing completion. Reclaimed water will be distributed to industries via pipeline.
4. The proposed uses of reclaimed water are as follows:
 - a. By Acme Fill Corporation - equipment washdown, and dust control
 - b. By IT Environmental Company - equipment washdown and waste pond chlorination supply water
 - c. By Contra Costa County Water District - equipment washdown
 - d. By the other industrial users named in this Order: cooling water
5. Section 13523 of the California Water Code provides that a regional board, after consulting with and receiving the recommendations of the State Department of Public Health, and if it determines such action to be necessary to protect the public health, safety, or welfare, shall prescribe water reclamation requirements for water which is used or proposed to be used as reclaimed water.

6. The use of reclaimed water by the Water District and the industrial users named above, for the purposes specified in Paragraph 4 could affect the public health, safety, or welfare; requirements for those uses are therefore necessary in accordance with Section 13523 of the water code.
7. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin in April 1975.
8. The water quality goals to be used in regulating water quality factors as set forth in the Basin Plan include maximum feasible reclamation and reuse of municipal, industrial, and agricultural wastewaters.
9. The water quality objectives for reclaimed wastewater, as set forth in the Basin Plan, specify those limits prescribed in Title 17, Sections 3025 through 8050, California Administrative Code. These have been superseded by Wastewater Reclamation Criteria as defined in Title 22, Sections 60301 through 60357.
10. The Board has notified the Sanitary District, the Water District, the industrial reclaimed water users and other interested agencies and persons of its intent to prescribe water reclamation requirements, and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
11. The Board, in a public meeting, heard and considered all comments pertaining to the proposed reclamation.

IT IS HEREBY ORDERED, the Central Contra Costa Sanitary District, Contra Costa County Water District, Shell Oil Company, Tosco Corporation, Stauffer Chemical Company, Pacific Gas & Electric Company, Monsanto Company, IT Environmental Company, Carbonic Engineering Company, and Acme Fill Corporation, Contra Costa County, shall comply with the following:

A. Reclaimed Water Use Specifications

1. The treatment, distribution and use of reclaimed water shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The reclaimed water shall be adequately oxidized and disinfected and meet the following quality limitations:

a) Turbidity	5 JTU	Not to be exceeded more than 5% of the time during any 24-hour period
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Reclaimed water shall not be diverted for reuse unless compliance with the above turbidity limit is assured.

b) 5-day, 20°BOD	30 mg/l 30-day average 60 mg/l daily maximum
c) Total coliform	2.2 MPN/100 ml 7-day median 240 MPN/100 ml daily maximum

B. Provisions

1. Cross-connections:
 - a. Potable water supply shall not be cross-connected to the reclaimed water system.
 - b. Canal water supply system shall not be cross-connected to the reclaimed water system unless an effective backflow prevention device has been installed.
2. Signs stating "Reclaimed Water-Do Not Drink" or equivalent shall be placed on the following:
 - a. All reclaimed water outlets within softening plant site.
 - b. All accessible valves and meter vaults within the softening plant and reclaimed water distribution system.
 - c. All outlets, tanks, and vaults at the reclaimed water tank site.
 - d. All outlets, piping, containers and tanks at the user sites.
3. Additional parties may be authorized to use reclaimed water only by action of the Board.
4. Reclaimed water shall not be used for purposes other than those specified in Finding 4 of this Order unless the Executive Officer finds that the requirements specified herein are appropriate to such uses. This determination shall be made in consultation with the State Department of Health Services and the Contra Costa County Health Department.
5. The Water District shall file written requests with this Board for any proposed changes in users, uses, or use areas. Such requests shall be accompanied by comments by the Contra Costa Health Department on the proposed changes and shall be filed at least 120 days prior to desired implementation.
6. The Executive Officer is authorized to prohibit the use of reclaimed water by specific users if non-compliance with the requirements of this Order is demonstrated to his satisfaction.
7. The Water District shall file reports documenting compliance with the water quality requirements of this Order according to specifications detailed by the Board's Executive Officer. Data supplied by the Central Contra Costa Sanitary District may be used for this purpose.
8. Prior to distributing reclaimed water, the Water District shall submit a contingency plan acceptable to the Executive Officer describing procedures that will assure that effluent not meeting the requirements of Reclaimed Water Use Specification 2 will be excluded from the reclaimed water distribution system.

9. Prior to distributing reclaimed water, the Water District shall submit to the Regional Board a description of the existing safeguards provided to assure that, should there be reduction, loss, or failure of electric power, the discharger shall comply with the terms and conditions of this Order.
10. Prior to distributing reclaimed water, the Water District shall file with this Board documentation of compliance with the use restrictions of Finding 4 and the cross-connection prohibitions and labelling requirements of Provisions B.1 and B.2 of this Order for the facilities of the Water District and of the industrial users. This shall include observation of potential for public or worker exposure to wastewater.
11. The Water District shall conduct an annual inspection of use areas to assure compliance with this Order.
12. The Sanitary District, Water District and industrial users shall permit the Regional Board and the Environmental Protection Agency:
 - a. Entry upon premises in which reclaimed water is located or in which any required records are kept;
 - b. Access to copy any records required to be kept under terms and conditions of this Order;
 - c. Inspection of monitoring equipment or records, and
 - d. Sampling of reclaimed water lines.
13. The Sanitary District and Water District shall maintain in good working order and operate as efficiently as possible any facility or control system installed to achieve compliance with the water reclamation requirements.
14. The reclaimed water users, in the event of any change in control or ownership of water reclamation and reuse facilities, shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be forwarded to this Board.
15. Order No. 73-41 is hereby rescinded.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on March 20, 1979

FRED H. DIERKER
Executive Officer